

**NEW AND IMPROVED SYSTEM AND METHOD FOR  
DATA TRAFFIC REDIRECTION**

**ABSTRACT**

A system and method for intelligently redirecting data traffic from a  
5 Public Switched Telephone Network (PSTN) to a data network. The system  
can include: an intelligent communications platform connected between a  
switch and a Signaling System 7 (SS7) network to intercept SS7 messages  
between the switch and the SS7 network; and a communications control  
10 module connected to the intelligent communications platform via a  
Transmission Control Protocol/Internet Protocol (TCP/IP) link, the  
communications control module for providing management and  
communications to the ICP and providing access to the management and  
communication for a plurality of subscribers. The ICP can include an SS7 I/O  
15 card for processing SS7 messages and a CPU card for processing ISUP and  
TCAP. The communications control module can include: instructions for  
receiving messages from other ICPs for updated information on congestion on  
certain routes. The communications control module can also include  
instructions for receiving messages from other ICPs for updated information  
20 on congestion on certain routes. The communications control module can  
include: instructions for the plurality of subscribers to enter respective access  
line availability, alternative access numbers; and instructions for a plurality of  
users to populate respective user profiles. The GUI can allow internet service  
providers (ISP) to update information on status of a plurality of modem banks  
within the ISP, and can allow a network engineer to view traffic congestion  
25 and redirect traffic if necessary.